

Application/Control Number: 10/578,851

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1. An arrangement in the ventilation of a kitchen appliance, which arrangement is arranged to be connected to a ventilation
5 system, and which arrangement includes
 - at least one hood (10), which is intended to be installed above the kitchen appliance (11),
 - an exhaust-air connection (27) in each hood (10), for
10 connecting the hood (10) to the exhaust-air duct (12) belonging to the ventilation system, and
 - a separator (15), for separating grease from the exhaust air, characterized in that the arrangement further includes a cell (14), which is arranged after the hood (10) and is separate from the hood (10), and to which a separator (15) is fitted,
15 and which is connected to the exhaust-air duct (12).
2. An arrangement according to Claim 1, characterized in that the cell (14) is an elongated structure, the separator (15) being fitted to one end of it.
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3. An arrangement according to Claim 2, characterized in that the cell (14) includes a connection (26) for leading the exhaust air from the hood (10) to the cell (14) and which connection (26) is fitted to the opposite end of the cell (14)
25 to the separator (15).
4. An arrangement according to any of Claims 1 - 3, characterized in that, in the ventilation system, the cell (14) is fitted essentially horizontally relative to its longitudinal
30 axis.
5. An arrangement according to any of Claims 1 - 4, characterized in that, in the cell (14) there is an intake-air connection (25) for leading intake air into the cell (14) and
35 thus for using the intake air to alter the temperature and/or flow of the exhaust air.

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6. An arrangement according to Claim 5, characterized in that, in connection with the intake-air connection (25), there are means (17 - 20) for regulating the velocity, quantity, and/or temperature of the intake air as desired in the cell
5 (14).

7. An arrangement according to Claim 5 or 6, characterized in that, in order to feed intake air into the exhaust air, the cell (14) includes a distribution duct (23) and nozzle elements
10 (21) connected to it.

8. An arrangement according to any of Claims 5 - 7, characterized in that the intake-air connection (25) is connected to the intake-air duct (13) belonging to the ventilation system.
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9. An arrangement according to any of Claims 1 - 8, characterized in that the cell (14) includes baffle elements (28) for guiding the flow of the exhaust air in the cell (14).

20 10. An arrangement according to any of Claims 1 - 9, characterized in that the cell (14) includes washing elements (31) for distributing washing liquid to the cell (14) and/or the separator (15).

11. (new) An arrangement in the ventilation of a kitchen appliance, which arrangement is arranged to be connected to a ventilation system, and which arrangement includes

- at least one hood, which is intended to be installed above the kitchen appliance,
- an exhaust-air connection in each hood, for connecting the hood to the exhaust-air duct belonging to the ventilation system,
- a separator, for separating grease from the exhaust air,
- a cell arranged after the hood, to which a separator is fitted, and which is connected to the exhaust-air duct, and the cell includes a connection for leading the exhaust air from the hood to the cell, and
- an intake-air connection in the cell for leading intake air into the cell and thus for using the intake air to alter the temperature and/or flow of the exhaust air,

in which arrangement the cell is arranged separate from the hood, and there are means for regulating the velocity, quantity, and/or temperature of the air mixed in the cell in such way that the velocity, quantity, and temperature of the air mixed in the cell are as desired in contact with the separator, characterized in that the means include a temperature sensor arranged in the cell in connection with the separator as well as a heat exchanger, a motor, and a damper arranged in connection with the intake-air connection for regulating the velocity, quantity, and/or temperature of the intake air, and the heat exchanger, the motor, and the damper are connected to the temperature sensor for controlling them.

12. (new) An arrangement according to claim 11, characterized in that the cell is an elongated structure and the connection is fitted to the opposite end of the cell to the separator.

13. (new) An arrangement according to claim 11, characterized in that the ventilation system, the cell is fitted essentially horizontally relative to its longitudinal axis.

14. (new) An arrangement according to claim 11, characterized in that, in order to feed intake air into the exhaust air, the cell includes a distribution duct and nozzle elements connected to it.

15. (new) An arrangement according to claim 11, characterized in that the intake-air connection is connected to the intake-air duct belonging to the ventilation system.

16. (new) An arrangement according to claim 11, characterized in that the cell includes baffle elements for guiding the flow of the exhaust air in the cell.

17. (new) An arrangement according to claim 11, characterized in that the cell includes washing elements for distributing washing liquid to the cell and/or the separator.

18. (new) An arrangement according to claim 11, characterized in that the width of the cell is 1.1 - 2.0 times the width of the exhaust-air duct, in order to form a mixing chamber.

19. (new) An arrangement according to claim 11, characterized in that the length of the cell is 2 - 6 times the width of the cell.

20. (new) An arrangement according to claim 11, characterized in that the cubic capacity of the cell is at least 10% of the minute volume of the flow of exhaust air.